

In the Claims

1. **(Previously Presented)** A method of detecting script language viruses in data streams comprising:

preparing language description data corresponding to at least one script language;
preparing detection data for viral code corresponding to a script language virus;
lexically analyzing a data stream to identify the at least one script language;
lexically analyzing the data stream using the language description data to generate a stream of tokens; and

lexically analyzing the stream of tokens using the detection data and the language description data to identify the script language virus.

2. **(Original)** The method of claim 1, wherein the language description data correspond to Dynamic Finite Automata data.

3. **(Original)** The method of claim 2, wherein the Dynamic Finite Automata data comprises a set of states, with each state having a corresponding set of transaction having an associated character to be matched and an associated next state.

4. **(Previously Presented)** The method of claim 1, wherein the language description data correspond to language definition rules and check rules, wherein the language definition rules include descriptions of constructs of the target script language and relationships between the constructs.

5. **(Original)** The method of claim 4, wherein the lexical analysis includes one or more pattern matches based on the language definition rules.

6. **(Original)** The method of claim 4, wherein a script language used by the data stream is determined by the lexical analysis using the language check rules.

7. **(Original)** The method of claim 1 further comprising setting language definition rules for each of the least one script language.

8. **(Original)** The method of claim 1, wherein the detection data comprise at least one test, wherein each of the at least one test correspond to a pattern match or a cyclical redundancy check.

9. **(Original)** The method of claim 1, wherein the step of preparing detection data comprises:

obtaining samples of the viral code;
analyzing the obtained samples; and
setting a detection regimen that includes at least one pattern match or cyclical redundancy check based on the analysis of the obtained samples.

10. **(Original)** The method of claim 1, wherein the data stream is converted to a stream of tokens using lexical analysis.

11. **(Original)** The method of claim 10, wherein the tokens correspond to respective language constructs.

12. **(Original)** The method of claim 10, wherein a cyclical redundancy check is performed on the stream of tokens to detect viral code.

13. **(Previously Presented)** A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for detecting script language viruses, the method steps comprising:

preparing language description data corresponding to at least one script language;

preparing detection data for viral code corresponding to a script language virus;

lexically analyzing a data stream to identify the at least one script language;

lexically analyzing the data stream using the language description data to generate a stream of tokens; and

lexically analyzing the stream of tokens using the detection data and the language description data to identify the script language virus.

14. **(Previously Presented)** A computer system, comprising:
a processor; and
a program storage device readable by the computer system, tangibly embodying a program of instructions executable by the processor to perform method steps for detecting script language viruses, the method steps comprising:
preparing language description data corresponding to at least one script language;
preparing detection data for viral code corresponding to a script language virus; and
lexically analyzing a data stream to identify the at least one script language;
lexically analyzing the data stream using the language description data to generate a stream of tokens; and
lexically analyzing the stream of tokens using the detection data and the language description data to identify the script language virus.

15. **(Cancelled)**

16. **(Previously Presented)** An apparatus for detecting script language viruses, comprising:

a script language processor, wherein the script language processor prepares language description data corresponding to at least one script language;

a detection data processor, wherein the detection data processor prepared detection data for viral code corresponding to a script language virus; and

a detection engine, wherein the detection engine converts a data stream to a stream of tokens using lexical analysis, wherein the tokens correspond to respective language constructs, wherein the detection engine lexically analyzes the stream of tokens using the language description data and the detection data to identify the script language virus.

17. **(Original)** The apparatus of claim 16, wherein the language description data correspond to Dynamic Finite Automata data.

18. **(Original)** The apparatus of claim 17, wherein the Dynamic Finite Automata data comprises at least one set of states, with each state having a corresponding set of transitions and each transition having an associated character to be matched and an associated next state.

19. **(Previously Presented)** The apparatus of claim 16, wherein the language description data corresponds to language definition rules and language check rules, wherein the language definition rules include descriptions of constructs of the target script language and relationships between the constructs.

20. **(Original)** The apparatus of claim 19, wherein the lexical analysis by the detection engine includes one or more pattern matches based on the language definition rules.

21. **(Original)** The apparatus of claim 19, wherein a script language used by the data stream is determined by the lexical analysis of the detection engine using the language check rules.

22. **(Original)** The apparatus of claim 16, wherein the detection data comprises at least one test, and each of the at least one test correspond to a pattern match or a cyclical redundancy check.

23. **(Cancelled)**

24. **(Previously Presented)** A method, comprising:
receiving a data stream;
lexically analyzing the data stream to identify a script language;
receiving language description data for the script language;
lexically analyzing the data stream using the language description data to generate a stream of tokens;
generating viral code detection data by analyzing a plurality of samples of polymorphic script language viral code; and
lexically analyzing the stream of tokens using the viral code detection data and the language description data to identify at least one script language virus.

25. **(Cancelled)**

26. **(Cancelled)**